Mediterranean and the North Sea, upper Germany not excepted. This fact incontestably proves that these birds cross this distance in one uninterrupted tlight, and during one short spring night, viz, in 9 to 10 hours, which gives a rate of locomotion of 40 geographical miles per hour. Wonderful, incomprehensible, I admit, but still remaining a fact. The slow clumsy Royston Crow (Corvus cornix) crosses from here due west* over to England, at a rate of 27 geographical miles an hour, and resnlts of 25 miles have been furnished by the semi-domesticated Carrierpigeon. The distance from the north of Africa to Heligoland is equivalent to that from Newfomdland to Iceland, and therefore no objection whatever can be raised against your birds crossing over to us direct.

All this with plenty of evidence, and a great many points besides, is ready in manuscript snfficient to cover from fifty to sixty pages octavo print, and by the end of May I shall be ready for the press altogether.

I greatly count on your lenience, my dear sir, whilst allowing my pen to run on at such an unpardonable length, but perceiving from your contribution that you, like myself, have studied the grand theme of the migration in nature, which is quite a different matter from all learned treatises thereon worked out by the lamp of the studio, my holby felt so comfortable in your genial company that it bolted off with this unresisting tide.

Begging once more to pardon my having rentured on your time and patience at such umpardonable length, in more or less objectionable English thereto,

I remain, dear sir, jours, very truly,

Н. GÄTKE.

## DESCIEIPTIGN OF ALEPOCEIPIALUS BABRDII, A NEW SPECHES OF EISII FRSM THE DOEP-SEA FAUNA OF THE WESTERN ATLANTIC.

By G. HROWN GOODE arad TARLETON M. BEAN.
The National Museum has recently received from Mr. Christian Johnson, of the schooner William Thompson of Gloncester, a single specimen of an undescribed species of Alcpocephatus taken on the Grand Banks, at a depth of 203 fathoms. The only other known representative of this genus is the Alcpocephalus rostratus Risso, a member of the

[^0]Mediterranean fanna. The species is dedicated to the distinguished Secretary of the Smithsonian Institution.

Diagyosis.-Ibody comparatively elongate, somewhat compressed, its greatest height, at a point midway between pectorals and rentral insertions, contained $5 \frac{1}{3}$ times in its length to the origin of the middle candal rays, its greatest width equal to one-tenth of total length, the least height of tail contained 11 times in length of body.

Scales large, thin, oblong, triangular at the free end, those at the base of the anal fin having the free end more produced than the others. Sixty-five scales in the lateral line, seven rows between it and the origin of the dorsal, eleven between that of the anal and the lateral line. Scales extend for a short distance upon the bases of the dorsal and anal fins.

Head moderately compressed, snout subconical, the lower jaw included within the mpper when the mouth is closed. The length of the head is contained $4 \frac{1}{3}$ times in length of body, slightly exceeding twice the length of the lower jaw. Wialth of the head equal to the length of the operenlum and very slightly less than that of the upper jaw. Width of interorbital area half of the least height of tail. Length of snout half that of the mandible, which is one-ninth of the total length. Diameter of orlhit eyual to length of snout.

Dorsal inserted directly above the vent, slightly in advance of the anal and at a distance from the snout nearly equal to two-thirds of the total length of the body.

Length of longest ray of dorsal one-half that of the postorbital portion of the head. The distance of the anal from the smont is almost three times the length of the head, its dirst ray being about under the fourth ray of the dorsal. Its length of base is greater than that of the dorsal ly one-fifth of the length of the latter; its longest ray slightly exceeds the longest of the dorsal.

Middle caudal rays equal in length to longest ray of anal, the external rays somewhat more than twice as long.

Distance of pectoral from snont three times as great as the least height of the tail ; its length one-tenth of total length and equal to width of borly, reaching to ninth row of scales.

Distance of rentral from snont equal to twice the length of the head, its length slightly greater than that of middle candal lays.
 Pyl. 15.

Teeth on the internaxillaries, mandible, and palatines.
Color.-Uniform indigo-blue, this color extending to the inside of the mouth and the gill-membranes.

Table of Mcasurements.


Wasinngron, April 25, 1879.

## ON THE SPECEES OF ASTEOSCOTUS OF THE EASTEISN UNETED sTATES.

## Ly TAEEETON EII. EREAN.

The family Uranoscopide of Gill has two representatives on the east coast of the United States, Astroscopus y-gracum (U. \& V.) Gill, and $A$. anoplus (C. \& V.) Brevoort. The former was described from the Caribbean Sea, and is now for the first time recorded in onr waters. A. anoplus was founded upon young individuals sent by Professor LeConte, and the immaturity of the specimens has led to considerable confusion in the diagnoses of generi. Cuvier and Valenciennes supposed the species to be scaleless. Drs. Gill and Giinther both employed this as one of the characters separating it from Uranoscopus, the latter in 1860* assigning the $U$. anoplos of Cuvier and Valenciennes to his new genus,

[^1]
[^0]:    * During the fall this line of migration, so far as it comes under observation here, day or night, is from due east to west, sometimes perhaps with the declination of a point to the south.

[^1]:    * Cat. Fish. Brit. Mus. ii, 1860, p. 229.

